Handout 13
Completing the Cycle for Data Analysis

Task:

1. With your Data Analysis Team, review the MontCAS for Grade 10 Mathematics.
2. Complete the chart below as you work through the Cycle for Data Analysis. Remember to look for patterns within the group—in other words, can you identify specific content or standards that appear to be weak among a high percentage of students?
3. Work through the data cycle and problem solve. Ensure that by the end of the cycle, you have a testable hypothesis, as well as a clear action to change instruction. Use slide 21 from the presentation to help determine what type of instructional change you will make.
4. Be ready to share.

STEP 1: Examine Assessment Data
What patterns do you notice?
STEP 2: Ask Probing Questions
What probing questions do you have?
STEP 3: Generate questions (5 Why's) until you arrive at an actionable question
What other questions can you generate? What is your actionable question?

STEP 3: Develop an actionable response
What is your actionable response?
STEP 5: What is your hypothesis?
If [I do this] then [this] will happen.
STEP 6: Recommend possible instructional change(s) to address the hypothesis
What change(s) can be made to instruction?
STEP 7: Determine types of data you will use to test your hypothesis.
What types of data will you use to test the hypothesis?
STEP 8: Determine specific assignments or assessments that will be used for each type of data
What specific assessments will you use?